**Mahmud H.Chowdhury**

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**Legal Status: U.S. Citizen with active public trust clearance**

**Career Objective:**

Over 10 years of hands-on experience in Quality Assurance and Software Automation Testing of Client Server and Web based applications to secure a position as a Software Test Analyst/Engineer with a progressive company where I can utilize my acquired skills and gain further experience while enhancing the company’s productivity and reputation.

**PROFESSIONAL SUMMARY:**

* Experience in defining detailed application software test plans including organization, participants, schedule, test and application coverage scope.
* Well acquainted with all phase of SDLC and STLC.
* Analytical experience in developing detailed business level test scenarios and individual test events and scripts based on functional and business requirements.
* Experience in Data Driven, Behavior Driven, Keyword Driven, Hybrid Automation Frameworks.
* Expert in Developing and maintaining Automation Framework using Selenium Cucumber, TestNG, Grid, Webdriver, Apache ANT, Maven, Robot, Junit, and Java functions.
* Proven knowledge of developing BDD Scripts with Cucumber and Step Definitions.
* Extensive experience with Jenkins as CI tool and GitHub as repository and Extents Report as advance reporting.
* Hands-on experience with SOAP and REST Web services testing using SOAP UI and Postman.
* Experience in ETL/ Data warehouse backend testing and MicroStrategy reports testing.
* Experience in developing detailed design level test scenarios and individual test events and scripts based on multiple user groups and detailed user interface design requirements.
* Experience in developing, reviewing and managing requirements traceability matrix, application components, test cases, test case execution results.
* Experience in defining and executing test data acquisition including production data set selection and extraction and test data generation.
* Experience in End-To-End test and responsible for the Quality Assurance of this application to complete in record time.
* Good exposure to ETL testing with SQL skills.
* Experience in Performance Load testing user Apache JMeter.
* Good experience with writing and utilizing SQL queries for data verification in Oracle and other RDBMS.
* Hands-on experience with SOAP and REST Web services testing using SOAP UI and Postman.
* Experience in CMMI level 3 software development environment.
* Develop and Implement HP Test suites Such as Quality Center, HP Quick Test Professional, and HP Application Life Cycle Management (ALM).
* Experience in developing and executing SQL queries in MS SQL Server and Oracle environment to confirm database operations performed by software applications.
* Provide development staff with adequate information for remediation.
* Experience in conducting 508 compliance testing.
* Experience with planning, implementing, and testing mission critical information systems by employing Web Services and built on Internet architecture principles.

**TECHNICAL SKILLS:**

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| **Testing Tools:** | Team Foundation Server, TestDirector, JMeter, Selenium, Junit/TestNG, Maven, Cucumber, Jenkins, Git Desktop, GitHub, HP ALM, QTP/UFT, Load Runner, Soap UI, Postman, Newman, Rest- Assured, Eclipse and Intellij |
| Web and GUI Tools: | HTML, CSS, Bootstrap, MS Front Page, MS Excel and PowerPoint |
| Communication Tools: | Slack, Cisco Webex Meetings, Zoom, Skype for Business,  Microsoft Team, Miro- Online Whiteboard for visual collaboration. |
| Databases: | Oracle, MS SQL Server, MS Access |
| Change Management: | RationalClearQuest, Test Director, Bugzilla, Target Process. |
| Application Servers: | Microsoft IIS, Apache Tomcat, BEA's Web logic, Web logic Portal |
| Methodologies: | Agile, Waterfall, and Iterative software development methodologies. |
| Operating Systems: | MS Windows Server 2005/2008, Windows NT, Windows XP, Windows 7. |
| Languages: | JAVA, XML, Visual Basic, ASP, ASP.Net, C++, SQL and PL/SQL, JavaScript, VBScript, Perl. |

**PROFESSIONAL EXPERIENCES:**

***Client: CMS- EIDM Project***

**Location: Little Patuxent Pkwy, Columbia. MD**

**Job Title: Automation Test Engineer ● Duration: October 2019 to Present**

**Responsibilities:**

* Develop and maintain end-to-end automation testing frameworks and automation suites for front end and back end testing of a responsive portal application.
* Responsible for creating, maintaining and updating all portal test cases
* Develop automated test scripts to validate functional, technical, and performance requirements.
* Maintains Enterprise Portal automation framework design and execution document
* Conducts peer reviews of test cases and test documents
* Creates dashboard reports and updates with automation test cases, test results
* Maintains and executes smoke and regression scripts by adding new features and updating/fixing existing features due to requirements/environmental changes
* Develop and maintain API testing frameworks and perform API testing using Postman and Newman.
* Execute test scripts during internal system testing.
* Document test issues and work with development team to validate/recreate.
* Document test results for incorporation into the Requirements Traceability and Verification Matrix.
* Provide support to Client testers during acceptance testing, including test script walkthroughs, document testing issues and test results, and answering questions on system functionality.
* Develop and implement program test plans, quality assurance plans, programs, and procedures using the testing tools.
* Oversee tests to ensure that performance and quality products conform to established policy and standards.
* Develop test reports.
* Review, analyze, and report on quality discrepancies related to software and systems engineering.
* Investigate problems and develop disposition and corrective actions for recurring discrepancies.
* Interface with all program staff to ensure requirements are met.
* Recommend corrective actions, dispositions, and modifications.
* Work in an Agile/Scrum environment.

**Environment**: Java, JavaScript, Selenium, Tectia Secure File Transfer, Intellij IDEA,J2EE, XML, My SQL, Altova XML Spy, Snagit, Postman, Newman, JIRA, Maven, GitHub, Jenkins, MS SQL Server, SharePoint.

***Client: Federal Reserve Board- C-SCAPE Project***

**Location: Washington, DC**

**Job Title: Software Test Engineer ● Duration: March 2017 to September 2019**

**Responsibilities:**

* Involved in designing and Preparing Test Scenarios, Test Plans, Test Cases and Test Data for Federal Reserve Board – C-SCAPE Project.
* Designed and developed the test automation framework and automate tests cases for Smoke, functional and regression testing.
* Maintained the automation testing framework up to date with technology updates and Application changes.
* Designed object repository in the selenium framework using XPATH, ID, Name, and CSS locators.
* Executed Selenium automation suites on different platforms and done cross browser testing in parallel using Maven and Selenium Grid.
* Performed system testing, functional testing, integration testing, smoke testing and regression testing.
* Experienced in Behavior Driven Development(BDD) using Cucumber and Gherkin scripting language.
* Developed user friendly HTML Report using ExtentReport plugin.
* Used Jenkins continuous integration (CI) tool and CMS Git (GitHub) as shared repository.
* Logged defects, monitored their status and tracked them to closure using JIRA.
* Conducted User Interface, integration, functional, End to End, Reports and Regression testing.
* Work on issues with migration of Data from development to QA-Test Environment
* Extensively tested MicroStrategy Reports and Dashboards to validate the reports data and cosmetics of the report.
* Developed SQL queries to validate the data such as checking duplicates, null values and ensuring correct data aggregations.
* Extensive SQL querying on Staging, Data warehouse and Data Marts.
* Created Test cases using Element locators and Selenium WebDriver methods.
* Tracking and reporting the issues to project team and management during test cycles.
* Contributed in the development of knowledge transfer documentation.
* Worked in a Scrum team and attend daily scrum, Backlog refinement, Sprint Planning, Sprint Retrospective, PI planning meetings.
* Worked closely with software developers and take an active role in ensuring that the software components met the highest quality standards.

**Environment**: Java, JavaScript, Selenium, TestNG, Test Rails, SOAPUI, JIRA, Maven, Jenkins, Extent HTML Report, MS SQL Server 2016, Team Foundation Server, MicroStrategy, Snagit, Informatica, Tectia Secure File Transfer, XML, Sharepoint, WinMerge.

***Client: CMS- DECC Project***

**Location: Columbia Gateway Drive, Columbia. MD**

**Job Title: Data Warehouse Tester ● Duration: December 2013 to February 2017**

**Responsibilities:**

* Prepared Test Plan and developed test cases for functional and regression testing.
* Analyzed business requirements, functional specification, and the required documents for testing.
* Performed Functional, Negative, Smoke, System, Integration, End- To-End and Regression testing.
* Executed test cases and provide~~d~~ feedback to the development team.
* Executed ETL jobs in Informatica.
* Wrote SQL queries to validate the ETL logic of the application.
* Developed ETL test scripts based on technical specifications/Data design documents and Source to Target mappings.
* Interacted with the development team to report bugs and discuss the status of bugs.
* Maintained Traceability Matrix to track the requirements to the test cases to ensure complete test coverage.
* Extensively worked with flat files and excel sheet data sources. Wrote scripts to test the flat files data in the databases.
* Involved in various documentation tasks such as daily status reports, weekly progress reports, Requirements traceability Matrix (RTM) and defect logs.
* Responsibled for creating test data for the application with valid and invalid data covering all positive and negative test scenarios.
* Use HP ALM for requirements management and test management.
* Wrote SQL statements in script to retrieve data from database in order to verify accurate data stored in database.
* Performed regression testing against the various builds of the application.
* Conducted GUI, Data driven, Backend and Functionality Testing using UFT.
* Interface with developers to resolve technical issues and investigate~~d~~ software faults.
* Actively participated in enhancement meetings, project review meetings, weekly status meetings, peer review meeting and various other meetings which were focused on making the application more effective.
* Prepared RTM Document to ensure that all the requirements had sufficient coverage for through testing.
* Analyzed the functional specifications and help team members to achieve test goal.
* Responsibled for giving demonstrations and presentation to the management and mentoring other junior team members.

**Environment**: Snagit, Informatica, Tectia Secure File Transfer,HP ALM, Java, J2EE, XML IIS, MS Access, SQL Server, Serena Business Manager, Altova XML Spy, HP ALM, Windows XP, Unified Functional Testing (UFT), Quick Report.

**Company Name: Three Sigma Software, Inc.**

**Location: Fort Meade, Maryland.**

**Job Title: Sr. Software Tester ●Duration: July 2011 to November 2013**

**Responsibilities:**

* Analyzed business requirements and developed Test cases based on Use cases to evaluate the functionalities.
* Attended use case and technical specifications review sessions with product and architecture teams to provide feedback in the elaboration phase.
* Conduct User Interface, integration, functional, End to End, Reports and Regression testing.
* Develop SQL queries for querying data against different data bases for data verification process.
* Prepare the Test Plan and Testing Strategies for Data Warehousing Application
* Created test plans outlining the scope, approach, schedule, resources and deliverables.
* Coordinated the maintenance of multiple test environments to support parallel test efforts.
* Used HP’s Interactive Quality Center to map requirements to test cases, provide traceability to requirements, create test sets, and selectively run tests both manually and using automation test scripts.
* Clearly communicated defects with developers and updated comments in HP Quality center.
* Responsible for scheduling the batch execution of the tests, log and track defects using Quality Center.
* Configured the connection between MS Excel and HP Quality Center.
* Isolated test cases for manual and automated testing, and also established a regression test suite, both manual and automation, to assure the stability of SUT.
* Performed backend testing to validate the data using TOAD, added SQL queries to the required Test cases.
* Performed verification of Text, Database checkpoints and synchronization points of the application in Quick Test Professional.
* Created and Implemented Centralized Shared Object Repositories to reduce script maintenance time.
* Developed SQL queries for querying data against different data bases for data verification process.
* Prepared the Test Plan and Testing Strategies for Data Warehousing Application.
* Extensively use and developed SQL queries in backend testing of Databases.
* Execute Test Cases with respect to Source and Target database tables.
* Wrote test cases to test the application in Team Foundation Server.
* Created function libraries for common functions for better function reusability.
* Implemented a driver script using vbscript to execute multiple automated test scripts.
* Engaged in various meetings with the client customer service representatives to perform diagnostic testing of the automation tool in case of object recognition failure or any other critical testing issue.
* Documented weekly automation status reports that provided information about the AUT being tested, corresponding test-cases that have been automated, script information, verification point’s information, corresponding bugs’ information, and expected status for the next week.
* Performed automated regression testing of all of the AUTs to check the new functionality, bug fixes, and fix packs.
* Provided technical support to the UAT teams running UAT and trials.

**Environment:** HP Quality Center, QTP , BugZilla, Windows XP, HTML, XML, SOAP, WSDL, SQL Server, Microsoft VB on .NET Framework, Microsoft Team Foundation Server, Product Studio, Microsoft Visio, Apache, Team Track.

**Company: Kaiser Permanente**

**Location: Silver Spring, Maryland.**

**Job Title: Software Test Analyst ●Duration: March 2009 to May2011**

**Responsibilities:**

* Created a detailed System Test Plan and procedures.
* Reviewed evaluated and derived requirements for testability, develops and directed preparation and execution of comprehensive test plans, procedures and schedules for complete systems and/or subsystems.
* Assisted with the implementation and execution of all aspects of the testing activities including planning, creation and execution of test cases, test scripts, test reports.
* Automated tests scripts in Quick Test Professional (QTP)
* Developed test scripts using Automated Tools for Functionality, Security and Regression Testing.
* Conducted Load and Reliability Testing on Website’s workflows to identify and report performance bottlenecks.
* Identified and documented functional requirements and mapped them to individual test case requirements.
* Wrote SQL queries to test Data Integrity, Referential Integrity and performed Database Testing for the Application.
* Reported and tracked the status of the bugs, assigning severity ratings to them using Test Director.
* Validated the application against the expected results by inserting Database, Bitmap and GUI checkpoints.
* Reported software mismatches to the development team using HP Quality Center.
* Performed Regression testing for fixes and closed the defects.
* Involved in the End-To-End test and responsible for the Quality Assurance of this application to complete in record time.
* Participated in defect review meetings with the team members.

**Environment:** Windows Server 2005/2008, Oracle10G, ASP, HTML, SQL, TOAD, PL/SQL, QuickTest Professional (QTP), HP Quality Center.

**EDUCATION:**

* **Master of Business Administration(MBA)**

University of Sunderland, UK.

* **Bachelor of Science(BSc)**

Computing and Information Systems (CIS)

London Metropolitan University, UK.

**REFERENCES:**

* **Available upon request**